



National Weather Service

Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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LAKE ERIE

LEZ444	Mi Waters Of Lake Erie								
Detroit River Light	06	2225EST			0	0			Marine Hail (0.75)
LEZ444	Mi Waters Of Lake Erie								
Luna Pier	09	1703EST			0	0			Marine Tstm Wind (EG38)
LEZ444	Mi Waters Of Lake Erie								
Luna Pier	10	1737EST			0	0			Marine Tstm Wind (MG68)
LEZ444	Mi Waters Of Lake Erie								
Detroit River Light	21	0030EST			0	0			Marine Tstm Wind (MG39)
LEZ444	Mi Waters Of Lake Erie								
Detroit River Light	21	1333EST			0	0			Marine Hail (0.75)
LEZ444	Mi Waters Of Lake Erie								
Monroe Harbor to Detroit River Light	23	1730EST			0	0			Marine Tstm Wind (EG52)
LEZ444	Mi Waters Of Lake Erie								
North Cape	27	1744EST			0	0			Marine Hail (0.75)
LEZ444	Mi Waters Of Lake Erie								
North Cape	30	1710EST			0	0			Marine Tstm Wind (MG34)

LAKE HURON

LHZ464	Lh Pt Sanilac To Pt Huron 5Nm Offshore To Intl Border								
Lakeport to Port Sanilac	14	1711EST			0	0			Marine Tstm Wind (EG50)
LHZ443	Pt Sanilac To Pt Huron Mi								
Lakeport to Port Sanilac	14	1711EST			0	0			Marine Tstm Wind (EG50)
LHZ442	Hbr Beach To Pt Sanilac Mi								
Port Sanilac	14	1756EST			0	0			Marine Tstm Wind (EG43)
LHZ463	Lh Hbr Beach To Pt Sanilac 5Nm Offshore To Intl Border								
Port Sanilac	14	1756EST			0	0			Marine Tstm Wind (EG43)
LHZ422	Inner Saginaw Bay & Sw Of Pt Au Gres To Bay Port Mi								
Sebewaing to Bay Port	17	1600EST			0	0			Marine Tstm Wind (EG50)
LHZ421	Outer Saginaw Bay & Sw Of Alabaster To Pt Austin Mi								
Bay Port	17	1600EST			0	0			Marine Tstm Wind (EG50)
LHZ442	Hbr Beach To Pt Sanilac Mi								
Forestville to Richmondville	22	1610EST			0	0			Marine Tstm Wind (EG45)
LHZ463	Lh Hbr Beach To Pt Sanilac 5Nm Offshore To Intl Border								
Forestville to Richmondville	22	1610EST			0	0			Marine Tstm Wind (EG45)
LHZ464	Lh Pt Sanilac To Pt Huron 5Nm Offshore To Intl Border								
Lakeport to Lexington	23	1930EST			0	0			Marine Tstm Wind (EG52)
LHZ443	Pt Sanilac To Pt Huron Mi								
Lakeport to Lexington	23	1930EST			0	0			Marine Tstm Wind (EG52)

LAKE ST CLAIR

LCZ460	Lake St Clair (U.S. Portion)								
St. Clair Shores to	05	0040EST			0	0			Marine Hail (0.75)



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					Killed	Injured	Property	Crops	
<u>LAKE ST CLAIR</u>									
Metropolitan Beach									
LCZ460	Lake St Clair (U.S. Portion)								
St. Clair Shores to Metropolitan Beach	05	0040EST			0	0			Marine Tstm Wind (EG39)
Detroit River									
LCZ423	06	2341EST			0	0			Marine Tstm Wind (EG52)
Lake St Clair (U.S. Portion)									
LCZ460	06	2341EST			0	0			Marine Tstm Wind (EG52)
3 S Grosse Pointe									
Detroit River									
LCZ423	07	0043EST			0	0			Marine Hail (1.50)
Belle Isle to Ambassador Bridge									
Detroit River									
LCZ423	10	1758EST			0	0			Marine Tstm Wind (EG40)
Wyandotte									
Detroit River									
LCZ423	10	1826EST			0	0			Marine Tstm Wind (MG41)
Ambassador Bridge to Belle Isle									
Lake St Clair (U.S. Portion)									
LCZ460	10	1840EST			0	0			Marine Tstm Wind (EG38)
Metropolitan Beach									
St Clair River									
LCZ422	10	1840EST			0	0			Marine Tstm Wind (EG38)
Algonac									
Lake St Clair (U.S. Portion)									
LCZ460	10	1930EST			0	0			Marine Tstm Wind (MG41)
Metropolitan Beach									
St Clair River									
LCZ422	10	1930EST			0	0			Marine Tstm Wind (MG41)
Algonac									
Detroit River									
LCZ423	10	1758EST			0	0			Marine Tstm Wind (EG39)
Wyandotte									
Lake St Clair (U.S. Portion)									
LCZ460	10	1840EST			0	0			Marine Tstm Wind (EG35)
Metropolitan Beach to St. Clair Shores									
St Clair River									
LCZ422	10	1840EST			0	0			Marine Tstm Wind (EG35)
Algonac									
Lake St Clair (U.S. Portion)									
LCZ460	10	1930EST			0	0			Marine Tstm Wind (MG41)
Grosse Pointe to St. Clair Shores									
St Clair River									
LCZ422	10	1930EST			0	0			Marine Tstm Wind (MG41)
Algonac									
Detroit River									
LCZ423	17	1437EST			0	0			Marine Hail (1.00)
Belle Isle									
Lake St Clair (U.S. Portion)									
LCZ460	17	1437EST			0	0			Marine Hail (1.00)
St. Clair Shores									
Detroit River									
LCZ423	20	2310EST			0	0			Marine Tstm Wind (EG50)
Belle Isle									
Detroit River									
LCZ423	21	0030EST			0	0			Marine Tstm Wind (MG39)
Grosse Ile									
Detroit River									
LCZ423	21	1350EST			0	0			Marine Hail (0.75)
Belle Isle to Detroit River Light									
Lake St Clair (U.S. Portion)									
LCZ460	21	1350EST			0	0			Marine Hail (0.75)
St. Clair Shores									



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LAKE ST CLAIR

LCZ460	Lake St Clair (U.S. Portion)								
Grosse Pointe to St. Clair Shores	21	1420EST			0	0			Marine Tstm Wind (MG43)
LCZ422	St Clair River								
Algonac	21	1420EST			0	0			Marine Tstm Wind (MG43)
LCZ460	Lake St Clair (U.S. Portion)								
St. Clair Shores	23	0210EST			0	0			Marine Tstm Wind (EG43)
LCZ423	Detroit River								
Ambassador Bridge to Grosse Ile	23	1750EST			0	0			Marine Tstm Wind (MG68)
LCZ460	Lake St Clair (U.S. Portion)								
Grosse Pointe	23	1802EST			0	0			Marine Tstm Wind (EG70)
LCZ422	St Clair River								
Algonac	23	1810EST			0	0			Marine Tstm Wind (MG40)
LCZ422	St Clair River								
Algonac	23	1832EST			0	0			Marine Tstm Wind (EG52)

MICHIGAN, East

Macomb County									
Roseville	05	0040EST			0	0			Hail(0.75)
Lenawee County									
5 SW Tecumseh	06	2150EST			0	0			Hail(1.00)
Lenawee County									
Tecumseh	06	2151EST 2155EST			0	0			Hail(1.75)
Lenawee County									
Deerfield	06	2201EST			0	0			Hail(1.75)
Monroe County									
Petersburg	06	2207EST			0	0			Hail(1.00)
Monroe County									
1 N Dundee	06	2225EST			0	0			Hail(0.75)
Washtenaw County									
Chelsea	06	2240EST			0	0			Hail(0.75)
Oakland County									
5 W Bloomfield Hills	06	2301EST 2308EST			0	0			Hail(0.75)
Wayne County									
Dearborn Hgts	06	2325EST			0	0			Hail(0.75)
Wayne County									
Detroit	06	2341EST			0	0			Thunderstorm Wind (EG52)
Wayne County									
Detroit	07	0043EST			0	0			Hail(1.50)
Lenawee County									
5 N Morenci	07	0130EST			0	0			Hail(0.75)
Washtenaw County									
3 W Chelsea	07	0138EST			0	0			Hail(1.50)

A cold front moved through the region late in the evening on the 6th. Thunderstorms rapidly developed along this front late in the evening and continued through the early morning on the 7th. Many of these storms produced large hail.



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<u>MICHIGAN, East</u>									
Washtenaw County									
2 N Ann Arbor	09	1702EST			0	0			Thunderstorm Wind (EG52)
A trained weather spotter reported numerous trees blown down.									
Lenawee County									
4 NE Onsted	09	1715EST			0	0			Hail(0.75)
Oakland County									
1 S South Lyon	09	1719EST			0	0			Thunderstorm Wind (EG52)
A trained weather spotter estimated a 60 mph thunderstorm wind gust.									
Washtenaw County									
1 S Salem	09	1730EST			0	0			Thunderstorm Wind (EG52)
A trained weather spotter reported small trees blown down.									
A warm front was located across far southern Lower Michigan during the afternoon of the 9th. An upper level disturbance moved across the southern part of the state, triggering thunderstorms along the warm front. Some of these storms produced damaging winds.									
Oakland County									
Troy	09	2049EST			0	0			Lightning
Lightning struck a home in the 300 block of Aspinwall. Fire officials found charred wood and burnt insulation in the home.									
Macomb County									
Macomb	10	0100EST			0	0			Lightning
Lightning struck a home on Sherringham Road in Macomb Township. Two 18 inch holes were discovered on the roof									
Lenawee County									
5 NE Tecumseh	10	1700EST			0	0			Hail(0.88)
Livingston County									
2 E Hartland	10	1700EST			0	0			Thunderstorm Wind (EG52)
A few trees were blown down.									
Oakland County									
3 W Highland	10	1704EST			0	0			Thunderstorm Wind (EG52)
A few small trees were blown down.									
Wayne County									
Trenton	10	1730EST			0	0			Hail(0.75)
Monroe County									
Luna Pier	10	1737EST			0	0			Thunderstorm Wind (MG68)
Measured 78 mph wind gust, which pushed over empty rail cars.									
Oakland County									
Royal Oak	10	1754EST			0	0			Thunderstorm Wind (EG52)
Numerous trees were blown down.									
Macomb County									
Macomb	10	1810EST			0	0			Hail(1.00)
Macomb County									
Macomb	10	1810EST			0	0			Thunderstorm Wind (EG52)
A car port was blown off a mobile home.									
A cold front moved through southeast Michigan late in the day on the 10th, producing a few severe storms in the Detroit-Metro area.									
Genesee County									
Atlas	10	1830EST			0	0	3K		Lightning
Lightning struck near the Goodrich Middle School. The lightning strike hit close enough to knock out some low voltage equipment.									



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					Killed	Injured	Property Crops	

MICHIGAN, East

That includes items such as keyless entry, the PA system, and the fire panel and alarm.

MIZ047

Midland

10 2355EST
11 0915EST

0 0

Flood

The Tittabawassee River at Midland went above its 24 foot flood stage at 1155 pm EST on the 10th. The river crested at 24.09 feet at 4 am EST on the 11th, then fell back below flood stage at 915 am EST on the 11th.

Shiawassee County

**5 SW Owosso to
3 W Owosso**

13 1732EST
1734EST

2 20

0 0

Tornado (F0)

A weak tornado touched down in a farm field on West Dewey Road. Winds were strong enough to throw an empty grain bin 200 feet.

Lapeer County

Lapeer

13 1955EST

0 0

Lightning

Lightning struck a radio tower behind the Lapeer County Central Dispatch Center on Genesee Street, damaging the radio consoles and computers.

Washtenaw County

Ann Arbor

14 1505EST

0 0

Thunderstorm Wind (EG52)

A large tree toppled and blocked the eastbound lane of Dexter Avenue at the North Maple Road intersection.

Saginaw County

**4 SW Shields to
2 E Shields**

14 1520EST

4 125

0 0

250K

Tornado (F1)

A tornado caused damage along Trinklein, Stroebel, Hart, Miller, and Weigel roads in James Township. Damage was also reported along Center Road near Camelot Place Apartments in Saginaw Township.

A National Weather Service storm survey determined winds reached up to 90 mph. Numerous trees and power lines were down.

Genesee County

3 SE Montrose

14 1625EST

0 0

Thunderstorm Wind (EG52)

Local law enforcement reported trees blown down.

Genesee County

Flint

14 1635EST

0 0

Thunderstorm Wind (EG52)

Local law enforcement reported trees blown down.

Genesee County

3 E Mt Morris

14 1635EST

0 0

Hail(0.75)

Genesee County

2 S Otisville

14 1640EST

0 0

Hail(0.75)

Genesee County

2 S Otisville

14 1640EST

0 0

Thunderstorm Wind (EG65)

A trained weather spotter estimated a 75 mph thunderstorm wind gust.

Genesee County

1 N Genesee

14 1645EST

0 0

Hail(0.75)

Genesee County

1 N Otisville

14 1700EST

0 0

Hail(0.75)

Genesee County

1 N Otisville

14 1700EST

0 0

Thunderstorm Wind (EG65)

A trained weather spotter estimated a 75 mph thunderstorm wind gust.



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					Killed	Injured	Property Crops	

MICHIGAN, East

Lapeer County

Otter Lake	14	1700EST			0	0		Thunderstorm Wind (EG52)
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A trained weather spotter estimated a 60 mph thunderstorm wind gust.

Lapeer County

1 W Clifford	14	1703EST	0.1	10	0	0		Tornado (F0)
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The general public reported a brief tornado touchdown.

St. Clair County

4.5 W Jeddo to 4 W Jeddo	14	1711EST 1713EST	0.5	30	0	0	15K	Tornado (F0)
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A tornado tracked along Logana road. Several mature pine trees were uprooted. There was also damage to a barn, vehicle, and porch.

Sanilac County

2 SW Peck	14	1756EST	0.1	10	0	0		Tornado (F0)
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A trained weather spotter reported a brief tornado touchdown.

A strong cold front moved through southeast Michigan during the late afternoon and early evening hours of the 14th, producing low-topped supercells north of M-59.

MIZ068

Livingston

14	1730EST			0	0		Flood
31	2359EST						

The Huron River at Hamburg went above its 6.5 foot flood stage at 530 pm EST on the 14th. The river crested at 8.13 feet at 715 pm EST on the 26th, and remained above flood stage through the remainder of the month. At least 20 properties along the Huron River in Hamburg Township flooded.

Midland County

Coleman	17	1400EST			0	0	Hail(1.75)
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Midland County

Coleman	17	1410EST			0	0	Hail(0.75)
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Shiawassee County

1 E Owosso	17	1425EST			0	0	Hail(1.00)
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Shiawassee County

Owosso	17	1430EST			0	0	Hail(0.88)
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Livingston County

4 NE Hamburg	17	1434EST			0	0	Hail(0.75)
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Wayne County

2 NE Detroit	17	1434EST			0	0	Hail(0.75)
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Wayne County

Detroit	17	1437EST			0	0	Hail(1.00)
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Saginaw County

3 SW Fosters	17	1500EST			0	0	Thunderstorm Wind (EG52)
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Law enforcement reported several trees and power lines down. A large tree snapped and toppled onto a car driving along M-13.

Saginaw County

2 NE Bridgeport	17	1505EST			0	0	Thunderstorm Wind (EG52)
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Two utility poles were blown down.

Saginaw County

Frankenmuth	17	1505EST			0	0	Thunderstorm Wind (EG52)
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Law enforcement reported trees and power lines down.



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<u>MICHIGAN, East</u>									
Tuscola County									
3 S Reese	17	1515EST			0	0			Thunderstorm Wind (EG52)
Law enforcement reported trees and power lines down.									
Tuscola County									
Richville	17	1515EST			0	0			Thunderstorm Wind (EG52)
A large tree fell across M-15.									
Bay County									
Kawkawlin	17	1535EST			0	0			Thunderstorm Wind (EG55)
Numerous trees and power lines down. Part of the roof of the Fire Department was also blown off.									
Huron County									
1 E Sebewaing	17	1600EST			0	0			Thunderstorm Wind (EG52)
A trained weather spotter reported large tree limbs down.									
Huron County									
5 NE Sebewaing to 7 NE Sebewaing	17	1603EST 1610EST			0	0			Thunderstorm Wind (EG52)
A trained weather spotter reported power lines blown down.									
Huron County									
1 N Pigeon	17	1610EST			0	0			Hail(0.75)
An upper level disturbance tracked northeast from Nebraska during the early morning hours of the 17th. As this disturbance encountered the deeper moisture plume that was established across the northern Ohio Valley region, thunderstorms initiated prior to midday, then progressed northeastward into southeast Michigan.									
Wayne County									
Gibraltar	20	0024EST			0	0			Lightning
Lightning was blamed for a blackout which left most of the City of Gibraltar and parts of Brownstown Township and the City of Flat Rock without power.									
Shiawassee County									
4 SE Carland	20	0817EST			0	0			Lightning
Lightning struck two houses on M-21 between Meridian and Elm Roads.									
Wayne County									
Dearborn	20	2310EST			0	0			Thunderstorm Wind (EG52)
A trained spotter estimated a 60 mph thunderstorm wind gust.									
Washtenaw County									
5 E Ann Arbor	20	2329EST			0	0			Hail(1.00)
Wayne County									
Countywide	20 21	2330EST 0700EST			0	0			Flash Flood
Numerous reports of 6 to 12 inches of water on area roadways. A Local State of Emergency was declared in the City of Dearborn Heights. Numerous side streets were impassable and several homes experienced flood damage. The City of Romulus also reported homes with basement flooding.									
Wayne County									
Romulus	20	2330EST			0	0			Hail(0.75)
Washtenaw County									
3 S Ypsilanti	20	2340EST			0	0			Hail(1.75)



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<u>MICHIGAN, East</u>								
Washtenaw County 3 S Ypsilanti	20	2340EST			0	0		Thunderstorm Wind (EG52)
			Law enforcement reported trees blown down.					
Washtenaw County Ann Arbor	20	2344EST			0	0		Hail(0.75)
Washtenaw County 2 NE Ypsilanti	20	2349EST			0	0		Hail(0.75)
Washtenaw County 2 E Saline	20	2353EST			0	0		Thunderstorm Wind (EG52)
			A trained spotter estimated a 60 mph thunderstorm wind gust.					
Washtenaw County 2 N Saline	20	2353EST			0	0		Thunderstorm Wind (MG62)
			A trained spotter measured a 75 mph thunderstorm wind gust. The spotter also reported branches down.					
Washtenaw County 2 NW Milan	21	0000EST			0	0		Hail(1.00)
Monroe County Milan	21	0001EST			0	0		Hail(1.00)
Wayne County Dearborn	21	0010EST			0	0		Thunderstorm Wind (EG52)
			A trained spotter estimated a 60 mph thunderstorm wind gust.					
Lenawee County Adrian	21	1300EST			0	1		Thunderstorm Wind (EG55)
			Trees and wires were blown down. A large tree landed on a house. A tree also fell on a woman. She was treated for minor injuries at Bixby Medical Center.					
<p>Severe thunderstorms rolled through southern Michigan during the late-night hours of Thursday, May 20th into the early morning hours of Friday, May 21st. The storms delivered strong winds, hail and heavy rain to southeast Michigan. Much of the rainfall fell in saturated areas that had experienced well-above average precipitation for the month of May. In Southeast Michigan, the combination of heavy rain and the power failure of the Wyandotte Pumping Station during the hours of 12 AM to 530 AM on May 21st led to the occurrences of basement flooding in Dearborn Heights, Romulus, and Allen Park.</p>								
MIZ076	Wayne	21	0025EST 0430EST		0	0		Flood
			The Ecorse Creek at Dearborn Heights went above its 8 foot flood stage at 1225 am EST on the 21st. The river crested at 8.44 feet at 215 am EST on the 21st, then fell back below flood stage at 430 am EST on the 21st.					
Shiawassee County Vernon	21	1235EST			0	0		Thunderstorm Wind (EG56)
			A trained spotter estimated a 65 mph thunderstorm wind gust.					
Lenawee County Cambridge Jct	21	1245EST			0	0		Hail(1.00)
Lenawee County Cambridge Jct	21	1245EST			0	0		Thunderstorm Wind (EG52)
			A trained spotter estimated a 60 mph thunderstorm wind gust.					
Livingston County 2 SE Gregory	21	1245EST			0	0		Thunderstorm Wind (EG52)
			Numerous trees were blown down.					



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					Killed	Iniured	Property	Crops	
<u>MICHIGAN, East</u>									
Lenawee County									
2 E Addison	21	1250EST			0	0			Hail(1.75)
Lenawee County									
2 E Addison	21	1250EST			0	0			Thunderstorm Wind (EG61)
Law enforcement estimated a 70 mph thunderstorm wind gust.									
Washtenaw County									
Chelsea	21	1255EST			0	0			Thunderstorm Wind (EG56)
A person from the general public estimated a 65 mph thunderstorm wind gust.									
Lenawee County									
1 NW Tecumseh	21	1259EST			0	0			Thunderstorm Wind (EG52)
A trained spotter estimated a 60 mph thunderstorm wind gust.									
Lenawee County									
Adrian	21	1300EST 1303EST			0	0			Hail(0.75)
Livingston County									
Hamburg	21	1300EST			0	0			Thunderstorm Wind (EG52)
The emergency manager reported trees and wires down.									
Washtenaw County									
3 WSW Ann Arbor	21	1300EST			0	0			Thunderstorm Wind (EG65)
Ten utility poles were toppled along Wagner Road between Scio Church and Ellsworth Roads in Lodi Township.									
Washtenaw County									
Saline	21	1301EST			0	0			Hail(1.00)
Washtenaw County									
Saline	21	1301EST			0	0			Thunderstorm Wind (EG52)
The emergency manager reported 8 inch tree limbs down.									
Lenawee County									
Adrian	21	1305EST			0	0			Hail(1.00)
Washtenaw County									
(Arb)Ann Arbor Muni	21	1305EST			0	0			Thunderstorm Wind (MG53)
Washtenaw County									
Ypsilanti	21	1305EST			0	0			Hail(0.75)
Washtenaw County									
Ann Arbor	21	1310EST			0	0			Thunderstorm Wind (EG52)
A trained spotter estimated a 60 mph thunderstorm wind gust.									
Livingston County									
3 SE Brighton	21	1315EST			0	0			Thunderstorm Wind (EG54)
The emergency manager reported numerous trees and wires down.									
Washtenaw County									
Ann Arbor	21	1315EST			0	0			Thunderstorm Wind (EG70)
A trained spotter estimated a 80 mph thunderstorm wind gust.									
Monroe County									
2 W Carleton	21	1320EST			0	0			Hail(0.75)
Monroe County									
Milan	21	1320EST			0	0			Hail(0.75)
Monroe County									
Milan	21	1320EST			0	0			Thunderstorm Wind (EG83)
A person from the general public estimated a 95 mph thunderstorm wind gust.									



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Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<u>MICHIGAN, East</u>									
Washtenaw County Salem	21	1320EST			0	0			Thunderstorm Wind (EG52)
			A trained weather spotter reported small trees blown down.						
Washtenaw County Saline	21	1320EST			0	0			Hail(1.00)
Washtenaw County Saline	21	1320EST			0	0			Thunderstorm Wind (MG56)
Washtenaw County Ypsilanti	21	1320EST			0	0			Hail(2.00)
Washtenaw County Ypsilanti	21	1320EST			0	0			Thunderstorm Wind (MG60)
Oakland County Clarkston	21	1325EST			0	0			Thunderstorm Wind (EG60)
			A trained spotter estimated a 60 mph thunderstorm wind gust. Large tree limbs were also reported down.						
Wayne County Dearborn	21	1325EST			0	0			Hail(0.88)
Wayne County Dearborn	21	1325EST			0	0			Thunderstorm Wind (EG56)
			A trained spotter estimated a 65 mph thunderstorm wind gust.						
Wayne County Romulus	21	1328EST			0	0			Thunderstorm Wind (EG61)
			A trained spotter estimated a 70 mph thunderstorm wind gust.						
Wayne County 3 N Sheldon	21	1328EST			0	0			Hail(1.00)
Wayne County 3 N Sheldon	21	1328EST			0	0			Thunderstorm Wind (EG52)
			A trained spotter estimated a 60 mph thunderstorm wind gust.						
Washtenaw County Countywide	21	1329EST 1429EST			0	0			Flash Flood
			Several reports of flooded roads, some of which were four feet deep.						
Oakland County 2 W Bloomfield Hills	21	1330EST			0	0			Thunderstorm Wind (EG52)
			A trained spotter estimated a 60 mph thunderstorm wind gust.						
Washtenaw County Milan	21	1330EST			0	0			Hail(0.75)
Washtenaw County Milan	21	1330EST			0	0			Thunderstorm Wind (EG55)
			Numerous trees were blown down.						
Wayne County Romulus	21	1330EST			0	0			Hail(1.75)
Wayne County Westland	21	1330EST			0	0			Hail(0.75)
Monroe County South Rockwood	21	1333EST			0	0			Hail(0.75)
Wayne County Redford	21	1335EST			0	0			Hail(0.75)



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May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<u>MICHIGAN, East</u>									
Wayne County									
Taylor	21	1335EST			0	0			Thunderstorm Wind (EG56)
A trained spotter estimated a 65 mph thunderstorm wind gust.									
Wayne County									
Central Portion	21	1336EST 1445EST			0	0			Flash Flood
Flooding was reported along I-94 and Telegraph									
Wayne County									
Dearborn Hgts	21	1338EST			0	0			Hail(0.75)
Oakland County									
2 NW Rochester Hills	21	1340EST			0	0			Thunderstorm Wind (MG55)
Oakland County									
Troy	21	1350EST			0	0			Thunderstorm Wind (MG56)
A trained spotter measure a 65 mph thunderstorm wind gust. Trees were also reported blown down.									
Wayne County									
Detroit	21	1350EST			0	0			Hail(0.75)
Oakland County									
Waterford	21	1355EST 1425EST			0	0			Flash Flood
Dixie Highway in Waterford was flooded with a foot of water.									
Macomb County									
Roseville	21	1356EST			0	0			Thunderstorm Wind (EG65)
A trained spotter estimated a 75 mph thunderstorm wind gust. Numerous trees were also reported down.									
Macomb County									
5 NE Utica	21	1415EST			0	0			Thunderstorm Wind (EG56)
A trained spotter estimated a 65 mph thunderstorm wind gust.									
St. Clair County									
Algonac	21	1430EST			0	0			Thunderstorm Wind (EG52)
A trained spotter reported trees blown down.									
A derecho track along a stalled frontal boundary which was located over northern Indiana and Ohio during the early afternoon hours of the 21st. Washtenaw County was one of the hardest hit, with 28,000 homes losing power.									
MIZ076									
Wayne									
	21	1400EST			0	0			Flood
	24	0320EST							
The Lower Rouge River at Inkster went above its 10 foot flood stage at 645 pm on the 21st. The river crested at 13.13 feet at 215 pm on the 22nd, then fell back below flood stage at 320 am on the 24th.									
MIZ076									
Wayne									
	21	1450EST 1710EST			0	0			Flood
The Ecorse Creek at Dearborn Heights went above its 8 foot flood stage at 250 pm EST on the 21st. The river crested at 8.15 feet at 4 pm EST on the 21st, then fell back below flood stage at 510 pm EST on the 21st.									
Washtenaw County									
2 N Saline	21	2130EST			0	0			Hail(0.75)



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May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<u>MICHIGAN, East</u>									
Livingston County									
6 NW Hartland	21	2136EST			0	0			Thunderstorm Wind (EG52)
									A trained weather spotter estimated a 60 mph thunderstorm wind gust.
Washtenaw County									
2 E Ann Arbor	21	2150EST			0	0			Hail(0.75)
Washtenaw County									
Ann Arbor	21	2151EST			0	0			Hail(0.75)
Washtenaw County									
Ann Arbor	21 22	2200EST 0000EST			0	0			Flash Flood
									Three roads were closed due to flooding in Ann Arbor.
Wayne County									
Taylor	21 22	2204EST 0400EST			0	0			Flash Flood
									The intersection of Telegraph and I-94 was closed due to flooding
Wayne County									
Lincoln Park	21	2212EST			0	0			Hail(0.75)
Lenawee County									
Deerfield	21 22	2300EST 0200EST			0	0			Flash Flood
									Roads were reported closed due to flooding.
MIZ076									
Wayne	21 22	2245EST 0330EST			0	0			Flood
									The Ecorse Creek at Dearborn Heights went above its 8 foot flood stage at 1045 pm EST on the 21st. The river crested at 8.33 feet at 1 am EST on the 22nd, then fell back below flood stage at 330 am EST on the 22nd.
Saginaw County									
1 E Chapin	22	1435EST			0	0			Thunderstorm Wind (EG70)
									A trained weather spotter estimated a 80 mph thunderstorm wind gust.
Saginaw County									
3 WSW Burt to 2 NW Burt	22	1458EST 1500EST	2.5	50	0	0			Tornado (F0)
									A tornado was reported at Gary and Bueche Roads by law enforcement. Trees and power lines were blown down.
Saginaw County									
4 SW Arthur	22	1502EST	0.2	30	0	0			Tornado (F0)
									A brief tornado touchdown was reported near Beyer Road and M-46. Trees and wires were blown down.
Tuscola County									
3 N Vassar	22	1515EST			0	0			Thunderstorm Wind (EG50)
									Law enforcement reported a utility pole blown down.
Shiawassee County									
5 SW Owosso	22	1535EST	0.1	20	0	0			Tornado (F0)
									A tornado briefly touched down near M-52 and Garrison Roads. A 4 foot diameter tree was snapped.
Tuscola County									
6 SE Millington to 7 SE Millington	22	1545EST 1547EST	1	50	0	0	5K		Tornado (F1)
									A tornado touched down 1 mile west of Fostoria. Numerous trees were blown down. Two homes also sustained roof damage.



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May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Persons Injured	Estimated Damage Property Crops	Character of Storm
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MICHIGAN, East

Huron County

2 N Sebewaing **22** **1610EST** **0** **0** **Thunderstorm Wind (EG60)**
A trained weather spotter estimated a 60 mph thunderstorm wind gust, which downed a power pole.

Sanilac County

3 N Deckerville **22** **1610EST** **0** **0** **Hail(0.75)**

Sanilac County

3 N Deckerville to **22** **1610EST** **1** **50** **0** **0** **20K** **Tornado (F0)**
3 NE Deckerville **1612EST**

A tornado blew apart 2 barns along Richmondville road near Burgess and Hunt Roads.

A west to east orientated frontal boundary lifted north through southeast Michigan during the afternoon hours of the 22nd. Multiple weak tornadoes occurred across the Tri-Cities and Thumb region. No injuries were reported with mainly minor damage. Consumers Energy reported that more than 235,000 customers were without power as a result of the May 21st and 22nd storms, the 10th highest total in Consumers Energy history. DTE Energy had 210,000 customers without power over the weekend.

MIZ060

Shiawassee

22 **2030EST** **0** **0** **Flood**
27 **1345EST**

The Shiawassee River at Owosso went above its 7 foot flood stage at 830 pm EST on the 23rd. The river crested at 9.03 feet at 1145 am EST on the 24th, then fell back below flood stage at 145 pm EST on the 27th. The Shiawassee River came close to flooding area homes along Jerome Avenue, with some submerged sections of the street blocked off from the public.

**MIZ047>048-053>055-
060>063-068>070-
075>076-082>083**

**Midland - Bay - Saginaw - Tuscola - Sanilac - Shiawassee - Genesee - Lapeer - St. Clair - Livingston - Oakland - Macomb -
Washtenaw - Wayne - Lenawee - Monroe**

23 **0300EST** **0** **0** **100M** **Flood**
24 **1100EST**

A stationary front over Iowa, Wisconsin, and Michigan over the weekend brought with it severe thunderstorms and heavy rains, which caused widespread flooding over Southeast Michigan. Much of the rainfall occurred in saturated areas that had experienced well-above average precipitation for the month of May. In fact, May 2004 will go down as the wettest May on record at Flint and Detroit. Over a 36 hour period (12 am May 22nd to 8 am May 23rd), 2 to 6 inches of rain fell across Southeast Michigan. A trained weather spotter in Armada reported the highest total, 5.8 inches. The following counties were declared a "state of disaster" due to the flooding and severe storms: Genesee, Livingston, Macomb, Oakland, Saginaw, Sanilac, St. Clair, Shiawassee, and Wayne

Here are some of the significant flooding reports:

Shiawassee County: In almost every city across the county, officials reported significant sewer system overflows. The backyards of most residents along Brady Street in Corunna were submerged under several feet of water, with the worst flooding reported along the northern section of the street.

St. Clair County: 300 homes were flooded. Most were in Marysville, Port Huron, and Kimball townships. About 25 roads were closed countywide, including Richman, Frith and Yaeger.

Wayne County: Major flooding problems reported in Taylor and Allen Park. In the north end of Taylor, some underpasses had 6 to 10 feet over water. About 350 homes in Allen Park flooded. At least 400 homes in Dearborn Heights reported water damage

Oakland County: Significant flooding occurred in Waterford, Rochester, and Pontiac, with at least 3 road intersections closed. 369 homes sustained water damage, with 231 of those in Waterford Township.

Macomb County: Numerous roads closed along the tributaries of the Clinton River. Road and bridge damage expected to cost 10 million to repair. Two Utica homes were completely destroyed. 100 homes in the county had damage of about 100,000 each.

Lenawee county: Numerous roads closed near Deerfield.

Saginaw county: A section of the Flint River Dike broke in Albee township, flooding adjacent farm fields



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Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops	Character of Storm
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MICHIGAN, East

Bay county: The Bay City State Recreation Area was forced to shut down for the first time in more than 15 years due to flooding.

MIZ053

Saginaw

23 0915EST
27 1748EST

0 0

Flood

The Shiawassee River near Fergus went above its 10 foot flood stage at 915 am EST on the 23rd. The river crested at 12.75 feet at 12 am EST on the 25th, then fell back below flood stage at 548 pm EST on the 27th.

Shiawassee County

6 NE Vernon

23 1640EST

0 0

Hail(1.00)

Genesee County

3 S Montrose

23 1700EST

0.1 20

0 0

Tornado (F0)

A tornado briefly touched down near Duffield and Mt. Morris Roads.

Genesee County

Mt Morris

23 1710EST

0.1 5

0 0

Tornado (F0)

Multiple spotters reported a brief tornado touchdown which produced no damage.

Genesee County

Flushing

23 1720EST

0 0

Hail(1.75)

Monroe County

Dundee

23 1730EST

0 0

Thunderstorm Wind (EG52)

A trained weather spotter estimated a 60 mph thunderstorm wind gust.

Macomb County

Fraser

23 1745EST

0 0

Thunderstorm Wind (EG52)

A trained weather spotter estimated a 60 mph thunderstorm wind gust.

Wayne County

Detroit Metro Arpt

23 1750EST

0 2

Thunderstorm Wind (MG68)

A wall was blown down in a construction area in the Detroit Metro terminal, injuring 2 people.

Wayne County

Romulus

23 1750EST

0 0

Thunderstorm Wind (EG52)

A trained weather spotter estimated a 60 mph thunderstorm wind gust.

Wayne County

Redford

23 1755EST

0 0

Thunderstorm Wind (EG55)

Four trees were blown down near Beach-Daly and Plymouth Roads, and toward Schoolcraft Road.

Tuscola County

5 W Caro

23 1800EST

0 0

Hail(0.75)

Wayne County

Detroit

23 1802EST

0 0

Thunderstorm Wind (EG70)

One large tree and numerous tree limbs were blown down.

Macomb County

2 SE Fraser

23 1812EST

0 0

Thunderstorm Wind (EG78)

A trained weather spotter estimated a 90 mph thunderstorm wind gust, which blew down a 2 foot diameter tree.

Macomb County

Fraser

23 1815EST

0 0

Thunderstorm Wind (EG52)

A trained weather spotter estimated a 60 mph thunderstorm wind gust, which caused a down wire.

Oakland County

Ferndale

23 1815EST

0 0

Thunderstorm Wind (EG52)

Numerous trees were blown down.



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Storm Data and Unusual Weather Phenomena



May 2004

									May 2004
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops	Character of Storm	
<u>MICHIGAN, East</u>									
Macomb County									
St Clair Shrs	23	1816EST			0	0		Thunderstorm Wind (EG65)	
A trained weather spotter estimated a 75 mph thunderstorm wind gust, which blew down a tree.									
Macomb County									
1 W Mt Clemens	23	1820EST			0	0		Thunderstorm Wind (EG60)	
A trained weather spotter estimated a 60 mph thunderstorm wind gust.									
Macomb County									
Sterling Hgts	23	1820EST			0	0		Thunderstorm Wind (EG56)	
A trained weather spotter estimated a 65 mph thunderstorm wind gust.									
Shiawassee County									
4.5 NE Vernon	23	1820EST			0	0		Thunderstorm Wind (EG52)	
A trained weather spotter estimated a 60 mph thunderstorm wind gust.									
Oakland County									
Troy	23	1830EST			0	0		Thunderstorm Wind (EG52)	
A trained weather spotter estimated a 60 mph thunderstorm wind gust, which resulted in a few large tree limbs down.									
St. Clair County									
Algonac	23	1832EST			0	0		Thunderstorm Wind (EG52)	
Numerous trees were blown down.									
Genesee County									
Swartz Creek	23	1835EST			0	0		Thunderstorm Wind (EG52)	
A trained weather spotter reported trees blown down.									
Macomb County									
Disco	23	1835EST			0	0		Thunderstorm Wind (MG62)	
Macomb County									
Disco	23	1842EST			0	0		Thunderstorm Wind (MG64)	
Numerous branches were reported blown down.									
Genesee County									
1 N Burton	23	1846EST			0	0		Thunderstorm Wind (EG70)	
A trained weather spotter estimated a 80 mph thunderstorm wind gust.									
Genesee County									
Countywide	23	1846EST 1910EST			0	0		Thunderstorm Wind (EG70)	
Local media reported hundreds of trees down across the county.									
Genesee County									
7 NW Grand Blanc	23	1846EST			0	0		Thunderstorm Wind (EG70)	
A trained weather spotter estimated a 80 mph thunderstorm wind gust.									
Genesee County									
2 N Burton	23	1849EST			0	0		Thunderstorm Wind (EG61)	
A trained weather spotter estimated a 70 mph thunderstorm wind gust, which damaged a home. A tree and several tree limbs were also reported down, along with siding off of an apartment on Lapeer and Belsay roads.									
Macomb County									
3 SW Mt Clemens	23	1850EST			0	0		Thunderstorm Wind (EG52)	
Large tree limbs were blown down.									
Genesee County									
1 NE Burton	23	1857EST			0	0		Thunderstorm Wind (EG56)	
A trained weather spotter estimated a 60 mph thunderstorm wind gust.									



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May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops	Character of Storm
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MICHIGAN, East

Genesee County								
Otisville	23	1905EST			0	0		Thunderstorm Wind (MG58)
Lapeer County								
Elba	23	1905EST			0	0		Thunderstorm Wind (EG70)
A trained weather spotter estimated a 80 mph thunderstorm wind gust.								
Lapeer County								
Lapeer	23	1905EST			0	0		Thunderstorm Wind (EG52)
Numerous trees were reported blown down.								
Lapeer County								
1 SW Kings Mill	23	1914EST			0	0		Thunderstorm Wind (EG70)
A trained weather spotter estimated a 80 mph thunderstorm wind gust.								
St. Clair County								
1 N Yale	23	1930EST			0	0		Thunderstorm Wind (EG52)
A trained weather spotter reported trees blown on the power lines.								
St. Clair County								
3 E Yale to 4 E Yale	23	1930EST 1932EST	1	75	0	0	5K	Tornado (F1)
A tornado touched down in the area of Bricker and Yale Road. One roof was damaged, along with numerous trees blown down.								

A warm front was located over the Tri-Cities and Thumb region during the early evening hours of the 23rd. Numerous severe thunderstorms over southeast Michigan produced mostly wind damage. However, there were a few hail reports and weak tornadoes, mainly along the I-69 corridor. Total damage across southeast Michigan during May 21-23 from severe storms was estimated near 13 million dollars.

MIZ070								
Macomb								
	23	1845EST			0	0		Flood
	25	1745EST						
The North Branch of the Clinton River at Mt Clemens went above its 15 foot flood stage at 645 pm EST on the 23rd. The river crested at 20.34 feet at 1015 am EST on the 24th, then fell back below flood stage at 545 pm EST on the 25th.								
MIZ070								
Macomb								
	23	2030EST			0	0		Flood
	24	1945EST						
The Clinton River in Clinton Township went above its 16 foot flood stage at 830 pm EST on the 23rd. The river crested at 17.93 feet at 4 am EST on the 24th, then fell back below flood stage at 745 pm EST on the 25th.								
MIZ070								
Macomb								
	23	2345EST			0	0		Flood
	25	0345EST						
The Clinton River at Mt Clemens went above its 16 foot flood stage at 1145 pm EST on the 23rd. The river crested at 18.71 feet at 915 am EST on the 24th, then fell back below flood stage at 345 am EST on the 25th.								
MIZ061								
Genesee								
	24	0007EST			0	0		Flood
	25	2140EST						
The Flint River at Flint went above its 13 foot flood stage at 1207 am EST on the 24th. The river crested at 14.03 feet at 1030 am EST on the 24th, then fell back below flood stage at 940 pm EST on the 24th.								



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May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm
					Killed	Injured	Property Crops	

MICHIGAN, East

MIZ061

Genesee

24 0445EST 0 0 Flood
1315EST

The Kearsley Creek near Davison went above its 10 foot flood stage at 445 am EST on the 24th. The river crested at 10.05 feet at 715 am EST on the 24th, then fell back below flood stage at 115 pm EST on the 24th.

MIZ053

Saginaw

24 0915EST 0 0 Flood
26 1000EST

The Cass River at Frankenmuth went above its 17 foot flood stage at 915 am on the 24th. The river crested at 19.74 feet at 1215 pm on the 25th, and remained above flood stage until 10 am on the 26th.

MIZ047

Midland

24 1800EST 0 0 Flood
26 0741EST

The Tittabawassee River at Midland went above its 24 foot flood stage at 6 pm EST on the 24th. The river crested at 25.50 feet at 1245 pm EST on the 25th, then fell back below flood stage at 741 am EST on the 26th.

MIZ053

Saginaw

25 1415EST 0 0 Flood
28 0215EST

The Saginaw River at Saginaw went above its 19 foot flood stage at 215 pm EST on the 25th. The river crested at 19.95 feet at 445 pm EST on the 26th, then fell back below flood stage at 215 am EST on the 28th.

Genesee County

4 SW Flint

31 1540EST 0 1 Thunderstorm Wind (EG52)

A ten year old was blown off his feet and suffered cuts to the head, requiring 5 stitches.

St. Clair County

1 SW Gardendale to
1 S Gardendale

31 1620EST 1.5 80 0 0 50K Tornado (F1)
1622EST

A tornado touched down and damaged a strip mall on Krafft Road and 24th Avenue in Fort Gratiot. Damage was reported across a 1.5 mile area stretching from Sapphire Lane and Krafft Road to the Lowe's home improvement store on 24th Avenue. Six to 10 homes had shingles or siding torn off or other minor damage. About 24 cars were damaged at the shopping center. A construction trailer in the parking lot of the Mercy Village retirement community was blown over, and the vinyl-siding ripped from the west side of the building. Trees were also uprooted along the path of the tornado. No injuries were reported